

1234 WIDE-RANGE MUSICAL SOUND LOUDSPEAKER SYSTEM



DESCRIPTION

Designed to meet professional musician standards, the rugged 1234 Wide-Range speaker system contains components selected for high efficiency, high power handling and reliable performance.

The overall performance of the 1234 satisfies the most demanding requirements of clubs, auditoriums, ballrooms and most large environments where only loud, undistorted, and quality sound will do. High power handling (up to 120 watts) and low distortion have been achieved with a new 15" musical instrument speaker yielding excellent bass and mid-bass, and by designing the high-frequency-extending Tangerine™ radial phase plug* in the 808-8B driver. A cast-aluminum sectoral horn is coupled to the compression

driver for maximum dispersion control and the dividing network provides smooth crossover at 1200 Hz. for protection of the driver and improved system power-handling.

Built to be used under physically demanding circumstances, the portable 1234 features a durable yet elegant bass reflex enclosure. Steel front legs, rear casters and a tow bar make handling an easy task, while vinyl edge bumper guards protect the cabinet from abuse.

The sturdy wood enclosure is constructed of 3/4" plywood and particle board, contains acoustical damping materials, and is solidly braced to effect the optimum in performance characteristics selected for the 1234 system.

SPECIFICATIONS

Speaker

Components: 421-8LF 15" Low-Frequency Musical-Instrument Loudspeaker
511B High-Frequency Sectoral Horn
808-8B High-Frequency Driver with Tangerine™
1234 Dividing Network

Power Ratings: Long-Term Broad-Band
Maximum Power: Up to 120 watts of band-limited pink noise (50 Hz to 20 kHz)

Frequency Response: 50 Hz to 20 kHz

Impedance: 8 ohms

Pressure Sensitivity: 100.5 dB SPL measured at 4' on axis with 1 watt input of pink noise from 500 Hz to 3 kHz. Equal to E.I.A. rating of 53.5 dB SPL at 30' with 1 mW input (Ref.: 0.0002 dyne/cm²)
122 dB SPL measured at 4' on axis from 120 watts input (full power rating) of pink noise from 500 Hz to 3 kHz (Ref.: 0.0002 dyne/cm²)

Crossover Frequency: 1200 Hz, full range dual LC network, 12 dB/octave slope

Input Connections: Two standard phone jacks, wired in parallel

Enclosure Type: Bass reflex type. Heavily braced, acoustically damped, rigid enclosure of 3/4" plywood and particle board.

Finish: Black leather-grained vinyl with removable black textured-polyester cloth grille, vinyl-edge bumper guards. Fitted with steel front legs, rear casters and tow bar handle.

Maximum Dimensions: 45" H x 28" W x 27 1/2" D (114.30 cm H x 71.12 cm W x 69.85 cm D)

Actual Weight: 147 lb. (54.34 kg)

Accessories (included): 50' cable, standard phone jacks

	421-8LF 15" BASS DRIVER
Voice Coil Diameter:	3"
Voice Coil Material:	Copper
Magnetic Assembly Weight:	17 1/2 lb (7.94 kg)
Magnet Material:	Ceramic
Flux Density:	13,000 gauss
Dimensions:	15" (38.1 cm) Diameter, 6 3/8" (16.2 cm) Depth
Weight:	22 lb (10 kg)

	808-8B COMPRESSION DRIVER*
	1.75"
	Aluminum
	1-1/5 lb (0.54 kg)
	Alnico V
	15,250 gauss
	4 1/2" (11.4 cm) Diameter, 3 1/16" (9.4 cm) Depth
	7 lb (3.2 kg)

511B SECTORAL HORN

Dimensions: 10 5/8" (27 cm) H x 23 3/8" (59.4 cm) W x 18 1/2" (48 cm) D

Weight: 17 3/4 lb (8.05 kg)

*Contains patented Tangerine™ radial phase plug, only from Altec. Reg. U.S. Patent No. 4,050,541; Foreign patents pending.

ARCHITECT AND ENGINEER SPECIFICATIONS

The 1234 Wide-Range Speaker System shall be the two-way, sound reinforcement type with a sturdy wood bass reflex enclosure, a 1200 Hz dividing network, a 15-inch musical instrument type LF loudspeaker, and a HF compression driver loaded with a cast aluminum sectoral horn, having exponential expansion. A 50-foot, 2-conductor cable with standard phone plug at each end shall be included with the system.

The portable system shall meet the following structural and performance criteria: The enclosure shall be constructed of heavily braced 3/4" wood, covered in black leather-grained vinyl and with removable black polyester cloth grille, vinyl-edge bumper

guards, steel front legs, rear casters and tow bar handle. Power capacity, 120 watts, measured using pink noise, band-limited from 50 Hz to 20 kHz. Frequency Response: 50 Hz to 20 kHz. Crossover frequency, 1200 Hz, full range dual LC network, 12 dB/octave slope. Impedance, 8 ohms. Pressure sensitivity: 100 dB SPL at 4 feet from 1 watt, 120 dB SPL at 4 feet from 100 watts (equal to EIA rating of 53.5 dB SPL at 30 feet from 1 milliwatt).

Maximum dimensions shall be 45" H x 28" W x 27 1/2" D and net weight shall be 147 lb, maximum.

The loudspeaker system shall be the ALTEC Model 1234.

ALTEC

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